PUBLIC RELEASE AUTI	HORIZATIO	ON REQU	JEST		Tracking Nurr	iber	
Complete Sections 1 and 2 of this the requestor and primary sponsor been approved. Distribution Sta Release Authorization YY-(tracki	will receive not tement A - Ap	ification stat proved for p	ing the following: oublic release; d	The "TITLE" materi stribution is unlimite	omplete Secti al(s) submitte d, as submit	ons 3 and 4 on for publi	c release has/have
Section 1 MATERIA	AL DESCR	IPTION :	& PURPOSE				
1. Requestor (Name/Position Title)	2.	Company/Organi	zation/Code		3. Desired	i Release Date
Derek Ferwerda / Fuel Contain	Ferwerda / Fuel Containment Engineer		WCADLKE 4	353		Jan 3, 20	17
4. Telephone Number	5. Fax Numb	er	6.	E-mail Address			
732-323-1129	732-323-721		de	rek.ferwerda@navy	.mil		
7. Work Address		8. Ma	iterial Title				
Code 4353, Bldg. 120-3		Aeria	ıl Refiielino Cle	arance Initiation Re	meet		
JB-MDL, NJ 08733		7 KCIII	n rememb er	mance innation Re	quest		
9. List all contributing organization NAWCADLKE 4353 and USA			es) whose subject	matter is discussed in	this material		
10. Information Category (Check a	II that apply)		Brief	X Documents	Thesis		Press Release
☐ Video ☐ /	Abstract		Photo/Grap	hics/Display			
Other (Specify)							
Related Contract						_	
Number 11. Proposed Venue and Date(s),	or Publication 1	for which this	s material has he	en prepared			
The purpose of this generic gui information required to initiate							ling the minimum
12. Does NAVAIR have primary rel	ease authority f	for this mate	rial?				
X YES If NO, you	ı must identify a	and obtain P	ublic Release Aut	horization from the cor	nmand(s) con	tributing to t	his material.
□NO			· i				
Section 2 REQUES	TOR						
have reviewed all the applicable so this material. Based on my review rademarked or proprietary informations and am including documents.	w, I have determi ion and determi	nined the ma	aterial does not co	ontain any classified, c	ontrolled uncla	ssified, exp	ort controlled,
 Print Name & Digitally Sign Belo Derek Ferwerda 	I	Organizatio AWCADL			c. Date Rec	eived d	i. Date Completed
FERWERDA.DEREK.S.124970018	1		Digitally Districts Date: 201	कुल के स्टाप्टरमार अध्यास अध्यास स्थापन स इ.स.च्या स्थापन स्थ इ.स.च्या स्थापन स्थ	A DELETE S 1247 COLU	•	
Section 3 PRIMARY	'SPONSO	R COMP	ETENCY EN	DORSEMENT			
have reviewed all the applicable se o this material. Based on my reviev rademarked or proprietary informati	v, I have detern	nîned the ma	aterial does not co	ntain any classified, co	applicable) and ontrolled uncla	l other perti ssified, exp	nent references related ort controlled,
1. Primary Sponsor - Print Name &	Digitally Sign I	Below a.	Organization	b. Telephone Nun	ber c. Date	Received	d. Date Completed
Steve McLaughlin		N	AWCADLKE	732-323-4058	11/22/	16	11/22/16
MCLAUGHLIN.STEVE.JAMES.12	39474086	I	(Degrady o (Sec or 12 Chart 2011	post by MCC. ALTERICACE TO THE FAMILE IN THE PAPER OF U.S. GOVERNOON OF DUTY IN PRES, ON VESSE OF MAIL ALTERIC HIS SERVEY, ACT NO.	PARTOTA ASSEL DANGER		
2. Program Authorization - Print Na	me & Digitally S	Sign Below	a. Organizatio	n b. Telephone Num	ber c. Date	Received	d. Date Completed
Farhad Choudhury			NAVAIR	732-323-7121	11/22/	16	11/23/16
CHOUDHURY FARHAD H 122873	3209		Digital Data: 2	y signal by CHOUDHURY FARHAD H.1228 916.11.23 11:1633 -0700	733209		<u> </u>

	REP	ORT DOCUM	IENTATION PAGE			Form Approved OMB No. 0704-0188			
maintaining the data suggestions for redi person shall be subj	a needed, and comple ucing the burden, to t ect to any penalty for	eting and reviewing the of the Department of Defe failing to comply with a	collection of information. Send con	nments regarding the te (0704-0188). Re- not display a current	nis burden est spondents sh	lewing instructions, searching existing data sources, gathering and imate or any other aspect of this collection of information, including ould be aware that notwithstanding any other provision of law, no control number.			
		016 2. REPOR				3. DATES COVERED 1988-2016			
4. TITLE AND	SUBTITLE				5a. CONTRACT NUMBER				
Aerial	Refueling C	learance Initia	ation Request		N/A				
					5b. GRAI N/A	NT NUMBER			
					5c. PROC N/A	GRAM ELEMENT NUMBER			
6. AUTHOR(S)				5d. PRO	JECT NUMBER			
			; Swiderek, Thoma	s; Kalt,					
Dexter	; ARSAG W	orking Group	5 Participants		N/A	NUMBER			
					5f. WORI	K UNIT NUMBER			
Aerial	Refueling Sy		AND ADDRESS(ES) ory Group (ARSAG)		<u> </u>	8. PERFORMING ORGANIZATION REPORT NUMBER			
	inkeney Roa OH 45385	d				ARSAG Document # 16-88-98R			
9. SPONSOR USN NAVAI		NG AGENCY NAI	ME(S) AND ADDRESS(E	S)		10. SPONSOR/MONITOR'S ACRONYM(S) NAVAIR			
Code 1	l Choudhury I.3.4.1, Bldg urst NJ 0873	120-3			11. SPONSOR/MONITOR'S REPORT NUMBER(S) N/A				
		ILITY STATEMEN ublic release;	शर distribution is unlir	nited					
	ENTARY NOTE								
		Joint Standa	ardization Board (J	SB) for Aeri	ial Refu	eling Systems as chartered by DSPO			
	ent is inten					cess by recommending the minimum			
The AR Cloagreements monetary a requests from	earance Init between co greements, om one orga	iation Reque coperating or contracted canization or	est document reco ganizations or nat commercial tanker nation to another.	ognizes the ions. Aeria support a The AR C	e requir Il refuel agreeme	en tanker and receiver agencies. rement for definitive aerial refueling ing support agreements may include ents and contractual tanker support e Initiation Request document is not ractual agreements.			
15. –SUBJEC	TTERMS								
See Do	ocument Terms	and Definitions,	Page 8						
	CLASSIFICAT		17. LIMITATION OF ABSTRACT	ROF		IE OF RESPONSIBLE PERSON ad Choudhury			
U	U	U	UU	PAGES 18		EPHONE NUMBER 323-7121			

ARSAG

AERIAL REFUELING SYSTEMS ADVISORY GROUP

Guidance Document

AERIAL REFUELING CLEARANCE INITIATION REQUEST

Document Number 16-88-98R **Date** 14 July 2016



[Signed]

ARSAG Executive Director

Dexter H. Kalt

[Signed]
Thomas Swiderek, Omega Air
Working Group Lead
Group Number 5

____[Signed]_
David A Benson, AFLCMC/EZFA
Chairman, Joint Standardization
Board (JSB) for Aerial Refueling
Systems

[Signed]

ARSAG Secretary
Col Gomer C. Custer, USAF, ret.

[Signed]
Thomas Swiderek, Omega Air
Document Manager

[Signed]
Farhad Choudhury, NAVAIR
Deputy Chairman, Joint Standardization
Board (JSB) for Aerial Refueling
Systems

Distribution Statement: This is an ARSAG Document prepared by a group of international contributors during scheduled ARSAG Workshop Sessions. This ARSAG document is intended to provide guidance derived from lessons learned and offer aerial refueling tanker/receiver interface guidance regarding standardization of aerial refueling systems. It is distributed to promote consistent, unambiguous communication among the international aerial refueling community. It does not contain proprietary, sensitive, classified or otherwise restricted information. ARSAG documents, as prepared, are not DOD, MOD or NATO standards, but provide recommendations regarding aerial refueling systems to United States military services, their allied military organizations involved in aerial refueling and their associated contractors. This document is suitable for release in the public domain; it may be included in DOD and NATO databases such as ASSIST, DTIC, Military Specifications, SRDs, STANAGs, etc. Contact: arsaginc@earthlink.net or 937 760-7407.



RECORD OF REVISIONS

REVISION	DATE	REASON FOR REVISION
1	14 July 2016	Scheduled up-date and new standardized format. New ARSAG Distribution Statement, 1 Mar 2016.



Table of Contents

Contents

Recor	rd of revisions	2
Table	of Contents	3
Proje	ct Initiation Form	5
Ackno	owledgements	6
Forev	vord	7
Purpo	ose	7
Scope	2	7
Term	s and Definitions	8
Refer	ence Documents	9
1.0	Information to Include	10
1.1	Contact information of requested agency:	10
1.2	Contact information for requesting agency:	10
1.3	Requested Clearance Category.	11
1.4	Need date.	11
1.5	Brief description.	11
1.6	System type	12
1.7	Aircraft Description.	12
1.8	Fuel.	12
1.9	Systems manufacturers.	12
1.10	Technical data	13
1.11	Standard Technical Data Survey (STDS)	13
1.12	Training currency	14
1.13	Memorandums of Understanding (MOU).	14
1.14	Accident/Incident considerations.	14
2.0	Flight test considerations	15
2.1	Availability Dates	15
2.2	Test location	15
2.3	Test aircrew	15
2.4	Instrumentation	15
2 5	Liability	15



2.6	Aircraft possession/control	. 16
3.0	Additional Considerations	. 16
3.1	Technical and operational interface meetings	. 16
3.2	Preparation of technical orders.	. 16
3.3	Identification of restrictions.	. 16
3.4	Fuel accountability.	. 16
3.5	Operational procedures, training and currency requirements.	. 16
3.6	Maintenance procedures, training and currency requirements	. 17
3.7	Technical data	. 17
3.8	Technical expertise.	. 17
3.9	Flight test agency.	. 17
3.10	Data control.	. 17
3.11	Funding considerations	. 18
3.11.1	Consideration of additional fund sharing options.	. 18
3.12	ATP 3.3.4.2	. 18
3.13	Additional procedures.	. 18
3.14	Additional relevant information	. 18



Project Initiation Form

ARSAG Workshop / DOD Joint Standardization Board (JSB) for Aerial Refueling Systems PROJECT INITIATION FORM (PIF)

1. PROJECT SPONSOR OR INITIATING AGENCY (This section to be filled out by the requester)											
Name of Individual:	DEXTER H.	VALT									
		NALI									
Name of Organization:	ARSAG		700	-			11050			0.00	
POC Information:	Phone: 93	7-2879	790	E-ma	ul	dnka	lt35@	outlo	ok.cc	om	
2. PROJECT REQUEST											
(This section to be filled out by the requester) Provide organizations desiring aerial refueling tanker and or receiver											
Project Purpose: aircraft support a guide for requesting that support from another agency. Update the existing ARSAG guide clearance request document approved at the 1998 ARSAG annual meeting.						agency.					
Project Title: AERIAL REFUELING CLEARANCE INITATION REQUEST											
	ARSAG DOC	UMEN	T:								_
	Guide D	ocumer	nt	X			Recom	menda	tion Le	etter	
	INPUT TO D	OD ST.	ANDARI	IZAT	TION	DOC	UMEN	VT:			
Product Outcome:	Specification		Standard		JS	SSG		Other			
(Check One)	INPUT TO N	ATO D	OCUME	NT:							
	STANAG		STANR	EC		Pu	Allied blicatio	ns			
	INPUT TO IN	INPUT TO INDUSTRY DOCUMENT:									
	Standard		Other								
3. PROJECT TIMELINE											
(This section to be filled out by the requ	iester)			7.0							
Project Request Submittal Date:				16	JUN	E 20	15				
Requested Completion Date:				24	SEP	TEM	BER 2	015			
4. PROJECT DISPOSITION											
(This section to be filled out by ARSAG)				T							
Project Request Receipt Date:				16	JUN	E 201	5				
										Appro	ved:
										Yes	No
(Fa			JSB Chair (Farhad Choudhury, NAVAIR)							х	
Project Disposition:			JSB Deputy Chair (Dave Benson, AFLCMC/EZFA)						х		
			ARSAG Execu			100 T				х	
Priority Assessment:			Priority							1	
Project Number Assignment:			Proj	ect N	umb	er			16-	-88-98RW	D
Working Group Assignment:				ARSAG/JSB Working Group Number				5			
Response to Project Sponsor or Initiating Agency:				ARSAG Official Response Date						Kalt, Exec June 201	
Transition to ARSAG/JSB Work	Transition to ARSAG/JSB Working Group No.				5	Date	е		30	June 201	5
Swiderek 5 Swiderek 5 Form Version 3.0 Dated: 17 June 2915											

Submit to ARSAG Executive Director at arsaginc@earthlink.net



Acknowledgements

Like all ARSAG recommendation documents, this effort was accomplished under the direct guidance and support of ARSAG leadership and with the focused efforts of ARSAG team members.

Keith Hewitt provided support for the publication of the original document and its eventual publication in ATP-56 (B).

Workgroup 5 spent several Workgroup/JSB sessions reviewing and updating dozens of draft versions and obtained significant support from Jessica Graham. When determining the content and scope of this document, Workgroup 5 considered and incorporated other ARSAG recommendations to ensure the consistency and relevancy of all ARSAG products.



Foreword

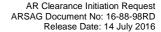
The procedures for obtaining aerial refueling clearances vary between nations and military services with a myriad of requirements, capabilities, and equipment for the building blocks that create many unique situations. In addition, variables such as operational requirements or existing technical data issues can impact the overall complexity. The information contained in this document is written to be used in conjunction with and supporting the ARSAG Aerial Refueling Clearance Process Guide, the Standardized Technical Data Survey and the Test Methods Guide.

Purpose

This document is intended to support the entire aerial refueling clearance process by recommending the minimum information required to initiate the aerial refueling clearance process between tanker and receiver agencies.

Scope

The AR Clearance Initiation Request document recognizes the requirement for definitive aerial refueling agreements between cooperating organizations or nations. Aerial refueling support agreements may include monetary agreements, contracted commercial tanker support agreements and contractual tanker support requests from one organization or nation to another. The AR Clearance Initiation Request document is not intended to include directions for the development or content of these contractual agreements.





Terms and Definitions

ARSAG Aerial Refueling Systems Advisory Group, International

AR Aerial Refueling

AAR Air-to-Air Refueling

AR Boom Tanker fuel delivery system via telescoping tubes and flying surfaces.

AR Drogue/Hose Reel Tanker delivery system via , take-up reel, hose MA 2, 3, 4 coupling and hose

stabilizing drogue

BDA Boom-to-Drogue Adaptor Kit. Used to permit probe refueling from a boom

equipped tanker through an adaptor kit attached to the boom. (No in-flight

conversion to boom is possible once BDA kit installed.)

NVG Night Vision Goggles

OEM Original Equipment Manufacturer

Probe/Nozzle/Mast Receiver system for accepting the tanker coupling

Receiver aircraft An aircraft that receives fuel from a compatible tanker aircraft.

Receptacle/UARRSI Receiver system for accepting tanker boom equipped nozzle. Includes the

Universal Aerial Refueling Receptacle Slipway Installation (UARRSI)

SRD Standards Related Document

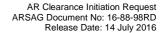
STDS Standardized Technical Data Survey

Tanker Aircraft An aircraft that carries extra fuel available for transfer to a receiver aircraft.



Reference Documents

ARSAG Ref #	ARSAG Reference Title &	Date
	NATO Reference Title	Promulgation Date
43-08-14	Aerial Refueling (AR) Clearance Process Guide with Attachment AR Tanker/Receiver Clearance Compatibility Assessment Checklist.	21 Aug 2014
	ATP 3.3.4.2 SRD 1 - Guide to Obtaining AAR Refuelling Clearances & Compatibility Certification	NATO Pending
17-81-03R	Standardized Technical Data Survey (STDS)	Apr 2014
03-00-03R	Aerial Refueling Pressure Definitions and Terms, Design and Verification Guidance	21 Sep 2010
41-09-15	Aerial Refueling Test Methods Guide	13 Apr 2015
01-98-14R	Aerial Refueling Equipment Probe/Drogue Interface Characteristics.	Apr 2014
	NATO ATP 3.3.4.6 (STANAG 3447 Ed5)	At NSO for staffing – expected to go under silence 12 Feb 2016 for 6 weeks
02-88-13	Aerial Refueling Equipment Boom Receptacle System and Interface Requirements.	8 Jul 2012
	NATO ATP 3.3.4.5 Ed.A. Ver 1 (STANAG 7191)	4 Jun 2013
05a-06-11	Aerial Refueling Drogue System Status Lights	April 2013
	NATO ATP 3.3.4.7 (STANAG 7215)	2 April 2013
O7-88-95	Aerial Refueling Operating Procedures ATP-56	Sep 1995
	NATO ATP 3.3.4.2, Air to Air Refuelling Ed C Ver 1 Edition D accepting edits through April 2016. Expected Promulgation Sep 2016.	Nov 2013





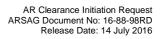
1.0 Information to Include

The following information is the minimum recommended to initiate the aerial refueling clearance process (attach additional information as necessary). This process can be initiated by either the tanker or receiver organization. A fully completed document, though desired, is not necessary in order to initiate the process. However, in the end, items agreed between the nations involved in the request will need to be completed.

1.1 Contact information of requested agency:

(Note: If contact information is not known, guidance may be obtained from the National SRDs within NATO ATP 3.3.4.2 or through ARSAG, International at arsaginc@earthlink.net or +1 937 760-7407)

	Point of contact name and position			
	Agency name & mailing address			
	E-mail address			
	Phone numbers			
1.2	Contact information for requesting agency: Point of contact name and position			
	Agency name & mailing address			
	E-mail address			
	Phone numbers			
	Request approval authority office & contact info (attach signed	d letter if a	available	<u>:</u>)





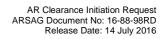
Category	of clear	ance re	equest require	d. (Cateo	ory 1, 2 o	r 3 in accord	danc
ATP 3.3.4				(, , , ,		
1	2	3	(Circle on	e)			
Need date	.						
What is th	e no-lat	er-thar	n date the aeri	al refuelin	g clearan	ce is require	d?
Brief desc	ription) <u>.</u>					
		scriptio	on (unclassifie	d) of the r	eason for	the operation	onal
refueling s	upport						
1.5.1 Mag	nitude	of requ	uirement.				
Provide a	descrip	tion of	the magnitude	•	pated oper	rational aeria	al re
	descrip	tion of		•	pated oper	rational aeria	al ref
Provide a	descrip	tion of	the magnitude	•	pated oper	rational aeria	al ref
Provide a	descrip	tion of	the magnitude	•	pated oper	rational aeria	al ref
Provide a support re	descrip quired (tion of	the magnitude nours, fuel qty	•	pated oper	rational aeria	al re
Provide a	descrip quired (tion of	the magnitude nours, fuel qty	•	pated oper	rational aeria	al re
Provide a support re 1.5.2 Basi What is the	descrip quired (c requi	tion of flight h	the magnitude nours, fuel qty	etc).	reling supp		



	em type. red type of tanker <u>AND</u> receiver aerial refueling systems involved (selecapply).	t all
□ Ta	inker boom	
□ Та	anker boom-to-drogue adaptor (BDA) kit (KC-135 only)	
□ Та	anker centerline drogue	
□ Та	anker wing pod drogue	
□Re	eceiver receptacle	
□Re	eceiver probe	
	e, model and version of all aircraft involved.	
Fuel.	. (s) of transfer fuel involved including primary, alternate and emergency	fuels
Syste Pleas	(s) of transfer fuel involved including primary, alternate and emergency ems manufacturers. se list the following regarding all applicable known aircraft and aerial ref	
Syste Pleas	(s) of transfer fuel involved including primary, alternate and emergency ems manufacturers. se list the following regarding all applicable known aircraft and aerial refems manufacturers.	



Is authority given for direct contact with manufacturers (consider inteller property or national export control restrictions)?
If "yes", has approval been granted to share the relevant data with all applicable agencies?
List any concerns related to this issue.
(use additional sheets as required)
nical data. nd describe availability of accurate manufacturer technical interface dat r than STDS).
dard Technical Data Survey (STDS)
nd attach any applicable completed Standardized Technical Data Surve S) information, if available.





	Training currency.
	Describe flight crew <u>operational</u> aerial refueling training currency requirements of tanker and receiver nation as required by requesting nation or organization.
	Memorandums of Understanding (MOU).
	List known applicable MOUs or agreements in place between tanker and receiver nation/organization and points of contact.
•	Accident/Incident considerations.
	Proposed aircraft accident/incident accountability, liability and investigation during operational activities and points of contact.

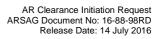




2.0 Flight test considerations.

If flight test is required for the aerial refueling clearance, the following information applies during this phase only.

W	Availability Dates. What are the estimated availability (dates) of the requesting agency aircraft ight test support? List any limitations.	for
	est location. Where is flight test expected/desired to be accomplished?	
	est aircrew. light test aircrew organization, availability and experience level.	
	nstrumentation. Vhat level of instrumentation is expected to be available on the requesting a	age
ai	ircraft for aerial refueling systems? Include data parameters and sample refueling systems?	ate
	iability.	





	2.6	Aircraft possession/control.
		Will the aircraft of the requesting agency need to change possession or tasking control during flight testing? If so, describe.
3.0	Addi	tional Considerations.
	this s	tional general considerations in addition to ATP 3.3.4.2.for all agencies are listed in section. Comments/responses in this section are not required but encouraged to tate a better assessment of work scope. (add additional sheets as required)
	3.1	Technical and operational interface meetings.
	3.2	Preparation of technical orders.
	3.3	Identification of restrictions. Methods for identifying critical aerial refueling restrictions (ATP 3.3.4.2 or describe
		other).
	3.4	Fuel accountability.
	3.5	Operational procedures, training and currency requirements.



-	
-	Technical data.
I	Description and location of relevant aerial refueling technical data (from clearances or activities).
-	
-	Technical expertise.
,	Availability of aerial refueling technical expertise.
-	
-	Flight test agency.
I	Flight test capability and identity of test agency, if available.
	Data control.



3.11	Funding considerations. Funding of flight test and operational refueling missions.				
	This could include Foreign Military Sales, Direct Commercial Sales, Foreig Military Financing, replacement in kind, ATARES Agreement, Implementing Arrangement, etc.				
	3.11.1 Consideration of additional fund sharing options.				
3.12	ATP 3.3.4.2 Use of ATP 3.3.4.2 Air to Air Refuelling Procedures and/or National SRD.				
3.13	Additional procedures. Additional specific aerial refueling operational procedures requested not fo ATP 3.3.4.2 and/or National SRD.	und in			
3.14	Additional relevant information				

(Include additional pages as needed).